

CLAIMS

What Is Claimed Is:

- 1 1. A mobile conveyor system for stacking aggregate comprising:
2 a mobile belt conveyor module mounted for movement with respect to the ground
3 on steerable rolling stock;
4 a mobile tripper module mounted for movement with respect to the ground on
5 steering rolling stock, the tripper module being fed aggregate by the mobile belt conveyor
6 module; and
7 a stacker receiving aggregate from the tripper module and stacking the aggregate to
8 lift level.
- 1 2. The mobile conveyor system of Claim 1, further comprising:
2 a second mobile belt conveyor module mounted for movement with respect to the
3 ground on steerable rolling stock, the second mobile belt conveyor module receiving
4 aggregate from the tripper conveyor module and feeding aggregate to the stacker.
- 1 3. The mobile conveyor system of Claim 1 wherein said mobile belt conveyor module
2 comprises:
3 a span of a certain length;
4 a receiving hopper at one end of the span;
5 a discharge chute at the other end of the span; and
6 crawler tracks supporting the span, the crawler tracks being steerable.
- 1 4. The mobile conveyor system of Claim 3 wherein the crawler tracks are steerable
2 through one hundred and eighty degrees.

1 5. The mobile conveyor system of Claim 4 wherein the mobile belt conveyor module
2 is about two hundred and fifty feet from receiving hopper to discharge chute.

1 6. The mobile conveyor system of Claim 3 further comprising a power unit for driving
2 the crawler tracks.

1 7. The mobile conveyor system of Claim 1 wherein said mobile tripper module
2 comprises:

3 a span of a certain length;
4 a receiving hopper at one end of the span;
5 a discharge chute at the other end of the span; and
6 crawler tracks supporting the span, the crawler tracks being steerable.

1 8. The mobile conveyor system of Claim 7 wherein the crawler tracks are steerable
2 through one hundred and eighty degrees.

1 9. The mobile conveyor system of Claim 8 wherein the mobile tripper module is about
2 three hundred feet from the receiving hopper to the discharge chute.

1 10. A mobile conveyor system for stacking aggregate, comprising:
2 a mobile tripper module mounted for movement with respect to the ground on
3 steerable rolling stock;
4 a stacker being fed aggregate by the mobile tripper module; and
5 a bridge stacker mounted for movement with respect to the ground, the bridge
6 stacker being fed aggregate by the mobile tripper module.

1 11. The mobile conveyor system of Claim 10, further comprising:

2 a mobile belt conveyor module mounted for movement with respect to the ground
3 on steerable rolling stock, the mobile belt conveyor module feeding aggregate to the mobile
4 tripper module.

1 12. The mobile conveyor system of Claim 10 wherein the mobile tripper module
2 comprises:

3 a span of a certain length;
4 a receiving hopper at one end of the span;
5 a discharge chute at the other end of the span; and
6 crawler tracks supporting the span, the crawler tracks being steerable.

1 13. The mobile conveyor system of Claim 12 wherein the crawler tracks are steerable
2 through one hundred and eighty degrees.

1 14. The mobile conveyor system of Claim 13 wherein the mobile tripper module is
2 about three hundred feet from the receiving hopper to the discharge chute.

1 15. The mobile conveyor system of Claim 11 wherein said mobile belt conveyor
2 module comprises:

3 a span of a certain length;
4 a receiving hopper at one end of the span;
5 a discharge chute at the other end of the span; and
6 crawler tracks supporting the span, the crawler tracks being steerable.

1 16. The mobile conveyor system of Claim 15 wherein the crawler tracks are steerable
2 through one hundred and eighty degrees.

1 17. The mobile conveyor system of Claim 16 wherein the mobile belt conveyor module
2 is about two hundred and fifty feet from receiving hopper to discharge chute.

1 18. The mobile conveyor system of Claim 15 further comprising a power unit for
2 driving the crawler tracks.

1 19. A mobile conveyor system for stacking aggregate comprising:
2 a mobile tripper module mounting for movement with respect to the ground on
3 steerable rolling stock;
4 a bridge stacker aligned with respect to the mobile tripper module to receive
5 aggregate from the tripper module; and
6 a first mobile belt conveyor module mounted for movement with respect to the
7 ground on steerable rolling stock, the first mobile belt conveyor module feeding aggregate
8 to the mobile tripper module.

1 20. The mobile conveyor system of Claim 19 further comprising a plurality of mobile
2 belt conveyor modules mounted for movement with respect to the ground on steerable
3 rolling stock, the plurality of belt conveyor modules aligned to feed aggregate along their
4 length to the next succeeding belt conveyor module and to the first mobile belt conveyor
5 module.

1 21. The mobile conveyor system of Claim 19 further comprising:
2 a second mobile belt conveyor module mounted for movement with respect to the
3 ground on steerable rolling stock, the second mobile belt conveyor module receiving
4 aggregate from the mobile tripper module; and
5 a stacker being fed aggregate by the second mobile belt conveyor module.

1 22. The mobile conveyor system of Claim 21 further comprising a plurality of mobile
2 belt conveyor modules mounted for movement with respect to the ground on steerable
3 rolling stock, the plurality of belt conveyor modules aligned to feed aggregate along their
4 length to the next succeeding belt conveyor module and to the first mobile belt conveyor
5 module.

1 23. The mobile conveyor system of Claim 21 wherein each one of the mobile belt
2 conveyor modules comprises:
3 a span of a certain length;
4 a receiving hopper at one end of the span;
5 a discharge chute at the other end of the span; and
6 crawler tracks supporting the span, the crawler tracks being steerable.

1 24. The mobile conveyor system of Claim 23 wherein the crawler tracks are
2 steerable through one hundred and eighty degrees.

1 25. The mobile conveyor system of Claim 24 wherein each mobile belt conveyor
2 module is about two hundred and fifty feet from receiving hopper to discharge chute.

1 26. The mobile conveyor system of Claim 25 wherein each mobile belt conveyor
2 further comprises a power unit for driving the crawler tracks.

1 27. The mobile belt conveyor system of Claim 26 wherein said mobile tripper
2 module comprises:

3 a span of a certain length;
4 a receiving hopper at one end of the span;

5 a discharge chute at the other end of the span; and
6 crawler tracks supporting the span, the crawler tracks being steerable.

1 28. The mobile conveyor system of Claim 27 wherein the crawler tracks of the
2 mobile tripper module are steerable through one hundred and eighty degrees.

1 29. The mobile conveyor system of Claim 28 wherein the mobile tripper module is
2 about three hundred feet from receiving hopper to the discharge chute.

1 30. A method for multiple lift stacking of aggregate, the steps of the method
2 comprising:
3 advance stacking a berm for conveyor system travel;
4 advance stacking the extension phase in conjunction with the berm stacking;
5 and
6 advance stacking the retraction phase.

1 31. The method of Claim 30 further comprising:
2 retreat stacking a second lift extension phase creating a corridor;
3 retreat stacking a second lift retraction phase; and
4 stacking the corridor in conjunction with stacking the retraction phase.

1 32. The method of Claim 30 wherein the berm is stacked by a radial stacker.

1 33. The method of Claim 30 wherein the extension phase is stacked by a bridge
2 stacker.

1 34. The method of Claim 31 wherein the second lift retreat stacking phase is
2 stacked by a bridge stacker.

1 35. The method of Claim 31 wherein the second lift corridor is stacked by a radial
2 stacker.

1 36. A method for stacking aggregate, the steps of the method comprising:
2 stacking one half of a site creating a corridor;
3 stacking the other half of the site; and
4 stacking the corridor in conjunction with stacking the other half of the site.

1 37. The method of Claim 36 wherein the one half and other half of a site is stacked
2 by a bridge stacker.

1 38. The method of Claim 36 wherein the corridor is stacked by a radial stacker.

1 39. A method for multiple lift stacking of aggregate, the steps of the method
2 comprising:

3 advance and retreat stacking the extension phase creating a corridor;
4 advance and retreat stacking the retraction phase; and
5 stacking the corridor.

1 40. The method of Claim 39 further comprising stacking a berm in conjunction
2 with the extension phase.

1 41. The method of Claim 39 wherein the corridor is stacked in conjunction with the
2 retraction phase.

1 42. The method of Claim 39 further comprising repeating the steps of Claim 39 on
2 a second adjacent site.

1 43. The method of Claim 42 further comprising repeating the steps of Claim 39 on
2 a third adjacent site.

1 44. The method of Claim 43 further comprising repeating the steps of Claim 39 as
2 a second lift on top of the adjacent sites.

1 45. The method of Claim 44 further comprising repeating the steps of Claim 39 as
2 a third lift.

1 46. The method of Claim 44 further comprising the step of building an equipment
2 corridor to the top of the second lift.

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